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ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE FIRST NAMED INVENTOR 08/21/2003 Atsushi Koide AK-423XX 7603 10/645,333 11/28/2007 **EXAMINER** WEINGARTEN, SCHURGIN, GAGNEBIN & LEBOVICI LLP KESSLER, CHRISTOPHER S TEN POST OFFICE SQUARE BOSTON, MA 02109 PAPER NUMBER ART UNIT 1793 MAIL DATE **DELIVERY MODE** 11/28/2007 **PAPER**

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)	
Office Action Summary		10/645,333	KOIDE ET AL.	
		Examiner	Art Unit	
		Christopher Kessler	1793	
Period fo	The MAILING DATE of this communication apport Reply	pears on the cover sheet	with the correspondence address	
VVHIO - Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D insions of time may be available under the provisions of 37 CFR 1.1 r SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailin led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO e, cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
Status				
1)⊠	Responsive to communication(s) filed on <u>17 September 2007</u> .			
2a)⊠	∑ This action is FINAL. 2b) This action is non-final.			
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposit	ion of Claims			
5)□ 6)⊠ 7)□	Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-10 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.		
Applicat	ion Papers			
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 				
Daionity	under 25 U.S.C. S.440			
12)[a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea See the attached detailed Office action for a list	s have been received. s have been received in rity documents have been (PCT Rule 17.2(a)).	Application No: n received in this National Stage	
2) Notice 3) Information	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	Paper No	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application	

10/645,333 Art Unit: 1793

DETAILED ACTION

Status of Claims

Responsive to the amendment filed 17 September 2007, claim 1 is amended. Claims 1-10 are currently under examination.

Status of Previous Rejections

The amendments to the claims require new grounds for rejection, stated below.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-10 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 1 recites the limitation "A method for producing by injection molding a composite metal product containing a carbon nano material and a powderized metal material" that comprises "melting the powderized metal material contained in the granules." This feature is new matter, and was not described in the instant specification, or present in the claims as originally filed. Instead the instant specification

Application/Control Number:

10/645,333 Art Unit: 1793

describes a process using powder to create a sheet material, and injection molding granules made from that sheet material, wherein the powder is melted (see SUMMARY OF THE INVENTION, DESCRIPTION OF THE PREFERRED EMBODIMENTS, claim 1, lines 7-13). There is no indication that the powderized metal remains powderized after being melted, nor would one of ordinary skill in the art understand that the powder remains powderized after being melted and injection molded. One of ordinary skill in the art would not have recognized from the instant disclosure that a process of melting a powderized metal to form a composite material and injection molding that material could be used to manufacture a composite metal product that contains powderized metal as required by claim 1. Applicant is further directed to MPEP 2163 and MPEP 2111.03.

The examiner finds that none of the prior art teaches or makes obvious a method of forming "a composite metal product that containing a carbon nano material and a powderized metal material" including a step of "melting the powderized metal material contained in the granules." Rather, one of ordinary skill in the art would immediately understand that by melting the powderized metal in the manner described in claim 1, it is no longer powderized metal, but a semi-solid or liquid metal which does not maintain powderized form.

Response to Arguments

Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

10/645,333 Art Unit: 1793

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Kessler whose telephone number is (571) 272-6510. The examiner can normally be reached on Mon-Fri, 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

10/645,333 Art Unit: 1793

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

csk

ROY KING
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700